

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

DATE MAILED: 04/15/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/501,570	02/10/2000	Anders Wikman	2380-164	4074
7	590 04/15/2003			
Nixon & Vanderhye P C			EXAMINER	
1100 North Gle Arlington, VA	ebe Road 8th Floor 22201-4714	NICHVENI CIMONI		, SIMON
			ART UNIT	PAPER NUMBER
		•	2685	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
0.65	09/501,570	WIKMAN, ANDERS				
Office Action Summary	Examiner	Art Unit				
	SIMON D NGUYEN	2683				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. -' Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be by within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 06 l	February 2003 .					
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.					
Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims						
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application	٦.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9,12-14,17,18 and 21-23</u> is/are rejected.						
7)⊠ Claim(s) <u>10,11,15,16,19 and 20</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acce	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Ex	• •					
Priority under 35 U.S.C. §§ 119 and 120	ammer.					
<u> </u>	n priority under 25 H C C S 110	(a) (d) ar (f)				
13) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	ir priority under 35 0.5.0. § 118	(a)-(d) or (i).				
, , ,	ta haya haan raasiyad					
1. Certified copies of the priority document		ation No				
2. Certified copies of the priority document						
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	· ·				
14) Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. § 119	9(e) (to a provisional application).				
a) The translation of the foreign language pro	ovisional application has been r	eceived.				
Attachment(s)	, ,					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _	_	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

Art Unit: 2683

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-6, 8-9, 12-14, 17-18, 21-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Petch et al. (6,243,372).

Regarding claim 1, Petch discloses a radio communication system including base station (12 of fig.1) communicating over a radio interface with a mobile station (14 of figs. 1), comprising: determining a timing adjustment for the base station (column 8 line 34-37) and a timing adjustment for the mobile station (column 14 lines 4-8); effecting a change in a reference timing of the base station during a first time interval using the first reference timing adjustment, the base station reference timing being used by the base station to determine a time when a block of information starts or ends

Art Unit: 2683

(column 3 lines 1-22, column 8 lines 10-58, fig.7);and effecting a change in a reference timing of the mobile station during a second time interval different from the first time interval using the second reference timing adjustment, the mobile station reference timing being used by the mobile station to determine a time when the block of information starts or ends (column 3 line 35 to column 4 line 10, column 10 lines 23-67, fig.7).

Regarding claims 2-3, Petch further discloses the steps of determining a difference between the base station and a radio network controller (16 of fig.2) timing, comparing the difference with a threshold and if the difference exceeds the threshold, determining the first reference timing adjustment (fig.2, column 7, column 8 line 1-45, column 9 line 7-38, column 14 lines 60-63).

Regarding claims 4-6, Petch further discloses the timing adjustment between a base station and a mobile station in which frame numbers of the base station and mobile frame number values are continuously incremented (column 8 lines 34-45, column 12 lines 40-59). It is noted that Petch's timing adjustment for the base station and mobile station use the frame numbers (column 3 lines 60-67) wherein the frame inherently includes odd and even numbers.

Regarding claim 8, Petch discloses a base station coupled to a radio network controller for communicating with a mobile station over a radio interface (figs. 1-2), comprising: a base station reference timer (40 of fig.2) for generating a reference timing used by the base station to determine a time when a block of information starts or ends (column 7 lines 61-65); and data processing circuitry (44 of fig.2) configured to receive a

Art Unit: 2683

timing adjustment from the radio network controller (16 of fig.2, column 6 line 67 to column 7 line 2) and to adjust the base station reference timer during a first time period allocated for the base station to make a reference timing adjustment (column 8 lines 11-45) different from a second time period allocated for the mobile station to make a reference timing adjustment (column 10 lines 43-67, fig.7).

Regarding claim 9, Petch further discloses the base station reference timer is a frame number counter and the data processing circuitry is configured to adjust the frame number counter (column 8 lines 10-28).

Regarding claim 12, Petch discloses that the BS master clock circuit (40 fig.2) is an internal timing source.

Regarding claim 13, Petch discloses a mobile station for communicating with a base station over a radio interface, wherein the base station being coupled to a base station controller (figs. 1, 2, 5), comprising: a mobile station reference timer (174 of fig.5) for generating a reference timing (176 of fig.5) used by the mobile station (column 10 lines 43-45); data processing circuitry configured to detect a timing signal from the base station and to adjust timing signal during a first time period for the mobile station to make a timing adjustment different from a second time period for the base station to make a timing adjustment (column 10 lines 43-67, column 11 lines 1-25, 45-67, fig.7).

Regarding claim 14, Petch further discloses the mobile station reference timer is a frame number counter and the data processing circuitry is configured to adjust the frame number counter (column 10 lines 56-67, column 11 lines 45-67).

Regarding claim 17, Petch discloses that the timer (174 of fig.5) is in the mobile station.

Regarding claims 18, Petch discloses a network control node coupled to the base station and the mobile stations for synchronizing timers in each of the base station and the mobile stations wherein the mobile station timer is adjusted at a different time than the base station timer (fig.7, column 3, column 4 lines 1-32).

Regarding claims 21-23, the block of information is a frame (column 3 lines 40-45, 53-57).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Petch et al. (6,243,372) in view of Hall et al. (6,208,871).

Regarding claim 7, Petch discloses a handoff method for a mobile station between the base stations via the controller (column 2 lines 1-9). However, Petch does not specifically disclose the step of timing adjustment for the handoff in a second base station.

Art Unit: 2683

Hall discloses a handoff of the mobile station between a first and second base stations (fig.2), comprising: determining a timing adjustment for the first and second base stations (column 3 lines 28-40); effecting a change in timing of the first and second base stations (column 5 line 25 to column 6 line 59); effecting a change in timing of the mobile station during a time interval different from the timing of the first or the second base station timing is changed (column 5 lines 58-66, column 9 lines 45-53). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have Petch, modified by Hall to synchronize a mobile station with two base stations prior to handoff the mobile station to a second base station in order to prevent the disruption of traffic information.

Page 6

Response to Arguments

- 5. Applicant's arguments with respect to claims 1-9, 12-14, 17-18 have been considered but are moot in view of the new ground(s) of rejection.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simon Nguyen whose telephone number is (703) 308-1116. The examiner can normally be reached on Monday-Friday from 7:00 AM to 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached on (703) 305-4385.

Art Unit: 2683

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Hand-delivered response should be brought to Crystal Park II,

2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Simon Nguyen

April 8, 2003

Simm Mynyen